Yunfei Bu

List of Publications by Year
in descending order

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112	6,205	57631	74018
papers	citations	44 h-index	75 g-index

113	113	113	7359
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular-level proton acceptor boosts oxygen evolution catalysis to enable efficient industrial-scale water splitting. Green Energy and Environment, 2024, 9, 344-355.	4.7	10
2	Highly-efficient visible-light-driven photocatalytic H2 evolution integrated with microplastic degradation over MXene/ZnxCd1-xS photocatalyst. Journal of Colloid and Interface Science, 2022, 605, 311-319.	5.0	112
3	Ag and MOFs-derived hollow Co3O4 decorated in the 3D g-C3N4 for creating dual transferring channels of electrons and holes to boost CO2 photoreduction performance. Journal of Colloid and Interface Science, 2022, 609, 901-909.	5.0	26
4	A Controllable Dual Interface Engineering Concept for Rational Design of Efficient Bifunctional Electrocatalyst for Zincâ€“Air Batteries. Small, 2022, 18, e2105604.	5.2	18
5	Ferrous-based electrolyte for simultaneous NO absorption and electroreduction to NH3 using Au/rGO electrode. Journal of Hazardous Materials, 2022, 430, 128451.	6.5	26
6	Electron-coupled enhanced interfacial interaction of Ce-MOF/Bi2MoO6 heterostructure for boosted photoreduction CO2. Journal of Environmental Chemical Engineering, 2022, 10, 107461.	3.3	23
7	Electrical and Electrochemical Performances Evaluation of LaNi_{0.6}Fe_{0.4}O₃ Cathode Contact and Current Collecting Layer in SOFCs. Journal of the Electrochemical Society, 2022, 169, 044531.	1.3	1
8	A well-controlled three-dimensional tree-like coreâ€“shell structured electrode for flexible all-solid-state supercapacitors with favorable mechanical and electrochemical durability. Journal of Materials Chemistry A, 2021, 9, 16099-16107.	5.2	14
9	Construction of Z-scheme Photocatalyst Containing ZnIn2S4, Co3O4-Photodeposited BiVO4 (110) Facets and rGO Electron Mediator for Overall Water Splitting into H2 and O2. Catalysis Letters, 2021, 151, 2570-2582.	1.4	6
10	Binary-dopant promoted lattice oxygen participation in OER on cobaltate electrocatalyst. Chemical Engineering Journal, 2021, 417, 129324.	6.6	51
11	Carbonâ€Based Electrocatalysts for Efficient Hydrogen Peroxide Production. Advanced Materials, 2021, 33, e2103266.	11.1	104
12	Advances and Perspectives for the Application of Perovskite Oxides in Supercapacitors. Energy & Fuels, 2021, 35, 17353-17371.	2.5	26
13	Enhanced Light-driven CO2 Reduction on Metal-free Rich Terminal Oxygen-defects Carbon Nitride Nanosheets. Journal of Colloid and Interface Science, 2021, 608, 2505-2505.	5.0	4
14	Fabrication of Controllable N-Doped Ce0.2Zr0.8O2 via Oâ€“Nâ€“O Bond with Robust NO Oxidation and Durability at Low Temperature. Energy & Fuels, 2021, 35, 752-761.	2.5	2
15	Co(OH)2 particles decorated Ni3(NO3)1.6(CO3)0.2(OH)4 flower-like composite electrode for high-performance hybrid supercapacitors. Journal of Alloys and Compounds, 2020, 817, 152689.	2.8	16
16	Construction of Nano-Fe₂O₃-Decorated Flower-Like MoS₂ with Feâ€“S Bonds for Efficient Photoreduction of CO₂ under Visible-Light Irradiation. ACS Sustainable Chemistry and Engineering, 2020, 8, 12603-12611.	3.2	34
17	Revealing Isolated Mâˆ’N₃C₁ Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. Angewandte Chemie - International Edition, 2020, 59, 23678-23683.	7.2	64
18	Revealing Isolated Mâˆ’N 3 C 1 Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. Angewandte Chemie, 2020, 132, 23886-23891.	1.6	9

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19	Building and identifying highly active oxygenated groups in carbon materials for oxygen reduction to H2O2. Nature Communications, 2020, 11, 2209.	5.8	281
20	Turning the activity of Crâ€“Ce mixed oxide towards thermocatalytic NO oxidation and photocatalytic CO2 reduction via the formation of yolk shell structure hollow microspheres. Journal of Alloys and Compounds, 2020, 829, 154508.	2.8	10
21	In situ self-assembly of zirconium metalâ€“organic frameworks onto ultrathin carbon nitride for enhanced visible light-driven conversion of CO₂ to CO. Journal of Materials Chemistry A, 2020, 8, 6034-6040.	5.2	45
22	Stable, efficient and cost-competitive Ni-substituted Sr(Ti,Fe)O3 cathode for solid oxide fuel cell: Effect of A-site deficiency. Journal of Power Sources, 2020, 451, 227762.	4.0	30
23	A highly efficient composite cathode for proton-conducting solid oxide fuel cells. Journal of Power Sources, 2020, 451, 227812.	4.0	54
24	Ni and Zn co-substituted Co(CO3)0.5OH self-assembled flowers array for asymmetric supercapacitors. Journal of Colloid and Interface Science, 2020, 573, 299-306.	5.0	28
25	Sr(Ti,Fe)O_{3â^Î´} Based Intermediate Temperature Solid Oxide Fuel Cell Anode with Self-precipitated (Ni,Fe) and Gd_{0.1}Ce_{0.9}O_{2â^Î´} Nano Particles. Journal of the Electrochemical Society, 2020, 167, 164507.	1.3	1
26	Amorphous Coreâ€“Shell Nanoparticles as a Highly Effective and Stable Batteryâ€Type Electrode for Hybrid Supercapacitors. Advanced Materials Interfaces, 2019, 6, 1900858.	1.9	10
27	Amino-Assisted NH₂-UiO-66 Anchored on Porous g-C₃N₄ for Enhanced Visible-Light-Driven CO₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 30673-30681.	4.0	116
28	Facile fabrication of oxygen and carbon co-doped carbon nitride nanosheets for efficient visible light photocatalytic H₂ evolution and CO₂ reduction. Dalton Transactions, 2019, 48, 12070-12079.	1.6	21
29	Rational construction of triangle-like nickel-cobalt bimetallic metal-organic framework nanosheets arrays as battery-type electrodes for hybrid supercapacitors. Journal of Colloid and Interface Science, 2019, 555, 42-52.	5.0	131
30	A Highly Efficient Composite Catalyst Constructed From NH2-MIL-125(Ti) and Reduced Graphene Oxide for CO2 Photoreduction. Frontiers in Chemistry, 2019, 7, 789.	1.8	50
31	Balancing hydrogen adsorption/desorption by orbital modulation for efficient hydrogen evolution catalysis. Nature Communications, 2019, 10, 4060.	5.8	131
32	A perovskite oxide with a tunable pore-size derived from a general salt-template strategy as a highly efficient electrocatalyst for the oxygen evolution reaction. Chemical Communications, 2019, 55, 2445-2448.	2.2	23
33	Synergistic interaction of perovskite oxides and N-doped graphene in versatile electrocatalyst. Journal of Materials Chemistry A, 2019, 7, 2048-2054.	5.2	104
34	Identifying the structure of Zn-N2 active sites and structural activation. Nature Communications, 2019, 10, 2623.	5.8	79
35	Controllable fabrication of uniform ruthenium phosphide nanocrystals for the hydrogen evolution reaction. Chemical Communications, 2019, 55, 7828-7831.	2.2	47
36	A Composite Catalyst Based on Perovskites for Overall Water Splitting in Alkaline Conditions. ChemElectroChem, 2019, 6, 1520-1524.	1.7	42

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37	Fabrication of 3D Co-doped Ni-based MOF hierarchical micro-flowers as a high-performance electrode material for supercapacitors. Applied Surface Science, 2019, 483, 1158-1165.	3.1	156
38	CuO-decorated dual-phase TiO2 microspheres with enhanced activity for photocatalytic CO2 reduction in liquidâ€“solid regime. Chemical Physics Letters, 2019, 725, 66-74.	1.2	14
39	Fabrication of coreâ€“shell C/MnO nanocomposite by liquid deposition for high performance lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2019, 30, 5978-5985.	1.1	5
40	Facile Dynamic Synthesis of Homodispersed Ni₃S₂ Nanosheets as a Highâ€Efficient Bifunctional Electrocatalyst for Water Splitting. ChemCatChem, 2019, 11, 1320-1327.	1.8	21
41	Efficient and stable nanoporous functional composited electrocatalyst derived from Zn/Co-bimetallic zeolitic imidazolate frameworks for oxygen reduction reaction in alkaline media. Electrochimica Acta, 2019, 299, 610-617.	2.6	20
42	Electrochemical property of multi-layer anode supported solid oxide fuel cell fabricated through sequential tape-casting and co-firing. Journal of Materials Science and Technology, 2019, 35, 695-701.	5.6	36
43	Aluminum and Nitrogen Codoped Graphene: Highly Active and Durable Electrocatalyst for Oxygen Reduction Reaction. ACS Catalysis, 2019, 9, 610-619.	5.5	56
44	A Rational Design for Enhanced Catalytic Activity and Durability: Strongly Coupled N-Doped CrOx/Ce0.2Zr0.8O2 Nanoparticle Composites. ACS Applied Nano Materials, 2018, 1, 1150-1163.	2.4	9
45	In-situ conversion of rGO/Ni2P composite from GO/Ni-MOF precursor with enhanced electrochemical property. Applied Surface Science, 2018, 439, 413-419.	3.1	71
46	The formation of 3D spherical Cr-Ce mixed oxides with roughness surface and their enhanced low-temperature NO oxidation. Chemical Engineering Journal, 2018, 333, 414-422.	6.6	43
47	Z-scheme CaIn₂S₄/Ag₃PO₄ nanocomposite with superior photocatalytic NO removal performance: fabrication, characterization and mechanistic study. New Journal of Chemistry, 2018, 42, 318-326.	1.4	29
48	The solvent-driven formation of multi-morphological Agâ€“CeO₂plasmonic photocatalysts with enhanced visible-light photocatalytic reduction of CO₂. RSC Advances, 2018, 8, 40731-40739.	1.7	23
49	Efficient CO2 Utilization via a Hybrid Na-CO2 System Based on CO2 Dissolution. IScience, 2018, 9, 278-285.	1.9	40
50	A Tailored Bifunctional Electrocatalyst: Boosting Oxygen Reduction/Evolution Catalysis via Electron Transfer Between Nâ€Doped Graphene and Perovskite Oxides. Small, 2018, 14, e1802767.	5.2	85
51	Efficient Inhibition of N₂O during NO Absorption Process Using a CuO and (NH₄)₂SO₃ Mixed Solution. Industrial & Engineering Chemistry Research, 2018, 57, 13010-13018.	1.8	6
52	Construction of Porous Mo₃P/Mo Nanobelts as Catalysts for Efficient Water Splitting. Angewandte Chemie, 2018, 130, 14335-14339.	1.6	58
53	Construction of Porous Mo₃P/Mo Nanobelts as Catalysts for Efficient Water Splitting. Angewandte Chemie - International Edition, 2018, 57, 14139-14143.	7.2	70
54	Aminoâ€Assisted Anchoring of CsPbBr₃ Perovskite Quantum Dots on Porous gâ€C₃N₄ for Enhanced Photocatalytic CO₂ Reduction. Angewandte Chemie, 2018, 130, 13758-13762.	1.6	172

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55	Aminoâ€Assisted Anchoring of CsPbBr₃ Perovskite Quantum Dots on Porous gâ€C₃N₄ for Enhanced Photocatalytic CO₂ Reduction. Angewandte Chemie - International Edition, 2018, 57, 13570-13574.	7.2	432
56	In Site Growth of Crosslinked Nickelâ€“Cobalt Hydroxides@Carbon Nanotubes Composite for a Highâ€Performance Hybrid Supercapacitor. Advanced Materials Interfaces, 2018, 5, 1800438.	1.9	56
57	Facile preparation of porous carbon nitride for visible light photocatalytic reduction and oxidation applications. Journal of Materials Science, 2018, 53, 11315-11328.	1.7	13
58	Crystallinity Dependence of Ruthenium Nanocatalyst toward Hydrogen Evolution Reaction. ACS Catalysis, 2018, 8, 5714-5720.	5.5	162
59	Haloid acid induced carbon nitride semiconductors for enhanced photocatalytic H2 evolution and reduction of CO2 under visible light. Carbon, 2018, 138, 465-474.	5.4	41
60	In Situ Fabrication of 3D Octahedral gâ€C₃N₄/BiFeWO_x Doubleâ€Heterojunction for Highly Selective CO₂ Photoreduction to CO Under Visible Light. ChemCatChem, 2018, 10, 4578-4585.	1.8	48
61	Exploration of Co-Fe alloy precipitation and electrochemical behavior hysteresis using Lanthanum and Cobalt co-substituted SrFeO3-Î´ SOFC anode. Electrochimica Acta, 2018, 277, 226-234.	2.6	47
62	A simple seed-mediated growth method for the synthesis of highly morphology controlled CrO x /Ce 0.2 Zr 0.8 O 2 catalysts and their enhanced NO oxidation. Chemical Engineering Journal, 2017, 317, 376-385.	6.6	11
63	Electrospun Porous Perovskite La_{0.6}Sr_{0.4}Co₁_{â€“}_xFe_x₃_{Î´} Nanofibers for Efficient Oxygen Evolution Reaction. Advanced Materials Interfaces, 2017, 4, 1700146.	1.9	74
64	Interaction between electrode materials Sr2FeCo0.5Mo0.5O6â^' and hydrogen sulfide in symmetrical solid oxide fuel cells. International Journal of Hydrogen Energy, 2017, 42, 22266-22272.	3.8	11
65	A Perovskite Nanorod as Bifunctional Electrocatalyst for Overall Water Splitting. Advanced Energy Materials, 2017, 7, 1602122.	10.2	369
66	Supramolecular Synthesis of Multifunctional Holey Carbon Nitride Nanosheet with Highâ€Efficiency Photocatalytic Performance. Advanced Optical Materials, 2017, 5, 1700536.	3.6	49
67	Electrocatalysis: Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst (Small 40/2017). Small, 2017, 13, .	5.2	1
68	A Highly Efficient and Robust Cation Ordered Perovskite Oxide as a Bifunctional Catalyst for Rechargeable Zinc-Air Batteries. ACS Nano, 2017, 11, 11594-11601.	7.3	219
69	Facile synthesis of hierarchical nickelâ€“cobalt sulfide quadrangular microtubes and its application in hybrid supercapacitors. Journal of Materials Science: Materials in Electronics, 2017, 28, 18064-18074.	1.1	21
70	Co,N-codoped graphene as efficient electrocatalyst for hydrogen evolution reaction: Insight into the active centre. Journal of Power Sources, 2017, 363, 260-268.	4.0	55
71	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. Small, 2017, 13, 1701167.	5.2	82
72	Validation and Electrochemical Characterization of LSCF Cathode Deposition on Metal Supported SOFC. Journal of the Electrochemical Society, 2017, 164, F1489-F1494.	1.3	7

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73	Synthesis and characterization of direct Z-scheme Bi2MoO6/ZnIn2S4 composite photocatalyst with enhanced photocatalytic oxidation of NO under visible light. Journal of Materials Science, 2017, 52, 11453-11466.	1.7	31
74	A Highly Efficient and Robust Nanofiber Cathode for Solid Oxide Fuel Cells. Advanced Energy Materials, 2017, 7, 1601890.	10.2	109
75	Mesoporous Spinel Nanofibers and Nitrogenâ€doped Carbon Nanotubes as Highâ€Performance Electrocatalyst for Oxygen Reduction in Alkaline and Neutral Media. Energy Technology, 2017, 5, 283-292.	1.8	9
76	Spinel MnCo₂O₄/N,Sâ€doped Carbon Nanotubes as an Efficient Oxygen Reduction Reaction Electrocatalyst. ChemistrySelect, 2016, 1, 2159-2162.	0.7	16
77	Controllable synthesis of Ni-Co nanosheets covered hollow box via altering the concentration of nitrate for high performance supercapacitor. Electrochimica Acta, 2016, 215, 500-505.	2.6	63
78	Highly efficient simulated solar-light photocatalytic oxidation of gaseous NO with porous carbon nitride from copolymerization with thymine and mechanistic analysis. RSC Advances, 2016, 6, 101208-101215.	1.7	17
79	3D flower-like hierarchical Ag@nickel-cobalt hydroxide microsphere with enhanced electrochemical properties. Electronic Materials Letters, 2016, 12, 824-829.	1.0	19
80	Composites of Single/Double Perovskites as Cathodes for Solid Oxide Fuel Cells. Energy Technology, 2016, 4, 804-808.	1.8	11
81	A durable, high-performance hollow-nanofiber cathode for intermediate-temperature fuel cells. Nano Energy, 2016, 26, 90-99.	8.2	93
82	A high-performance, cobalt-free cathode for intermediate-temperature solid oxide fuel cells with excellent CO2 tolerance. Journal of Power Sources, 2016, 319, 178-184.	4.0	30
83	Effect of an anode modified with nitrogenous compounds on the performance of a microbial fuel cell. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 527-533.	1.2	6
84	Correlation of morphology with catalytic performance of CrO /Ce0.2Zr0.8O2 catalysts for NO oxidation via in-situ STEM. Chemical Engineering Journal, 2016, 288, 238-245.	6.6	21
85	Structural and electrochemical properties of B-site Mg-doped La0.7Sr0.3MnO3â^'Î´ perovskite cathodes for intermediate temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2016, 655, 99-105.	2.8	25
86	Solvent effects during the synthesis of Cr/Ce0.2Zr0.8O2 catalysts and their activities in NO oxidation. Chemical Engineering Journal, 2015, 270, 1-8.	6.6	24
87	In Situ Probing of the Mechanisms of Coking Resistance on Catalyst-Modified Anodes for Solid Oxide Fuel Cells. Chemistry of Materials, 2015, 27, 822-828.	3.2	54
88	Improvement of BaCe0.8Sm0.1Y0.1O3-Î´-based IT-SOFC by optimizing spin-coated process of cathode and sintering temperature. Ionics, 2015, 21, 817-822.	1.2	4
89	Structureâ€“activity relationship of Cr/Ti-PILC catalysts using a pre-modification method for NO oxidation and their surface species study. Physical Chemistry Chemical Physics, 2015, 17, 15036-15045.	1.3	46
90	Evaluation of La0.4Ba0.6Fe0.8Zn0.2O3â^'Î´Â+ÂSm0.2Ce0.8O1.9 as a potential cobalt-free composite cathode for intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2015, 275, 808-814.	4.0	32

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91	Three-dimensional ultrathin Ni(OH)2 nanosheets grown on nickel foam for high-performance supercapacitors. Nano Energy, 2015, 11, 154-161.	8.2	379
92	Catalytic Oxidation of NO to NO2 Over Coâ€“Ceâ€“Zr Solid Solutions: Enhanced Performance of Ceâ€“Zr Solid Solution by Co. Catalysis Letters, 2014, 144, 538-544.	1.4	27
93	Synthesis and characterization of Ca and Sr co-doped ceria electrolytes. Ionics, 2014, 20, 721-727.	1.2	4
94	Performance of Y0.9Sr0.1Cr0.9Fe0.1O3â^Î´ as a sulfur-tolerant anode material for intermediate temperate solid oxide fuel cells. Journal of Power Sources, 2014, 250, 143-151.	4.0	22
95	La0.4Ba0.6Fe0.8Zn0.2O3â^Î´as cathode in solid oxide fuel cells for simultaneous NO reduction and electricity generation. Environmental Technology (United Kingdom), 2014, 35, 925-930.	1.2	3
96	Enhanced electrochemical properties of a LiNiO₂-based cathode material by removing lithium residues with (NH₄)₂HPO₄. Journal of Materials Chemistry A, 2014, 2, 11691-11696.	5.2	135
97	Focus on the modified CexZr1â^'xO2 with the rigid benzene-muti-carboxylate ligands and its catalysis in oxidation of NO. Applied Catalysis B: Environmental, 2014, 158-159, 258-268.	10.8	80
98	New insights into intermediate-temperature solid oxide fuel cells with oxygen-ion conducting electrolyte act as a catalyst for NO decomposition. Applied Catalysis B: Environmental, 2014, 158-159, 418-425.	10.8	26
99	Solvent effects on formation of Cr-doped Ce0.2Zr0.8O2 synthesized with cinnamic acid and their catalysis in oxidation of NO. Chemical Engineering Journal, 2014, 246, 328-336.	6.6	36
100	Fractional-hydrolysis-driven formation of nonuniform dopant concentration catalyst nanoparticles of Cr/Ce x Zr 1â^' x O 2 and their catalysis in oxidation of NO. Chemical Engineering Journal, 2014, 236, 223-232.	6.6	44
101	Treatment of carbon cloth anodes for improving power generation in a dualâ€chamber microbial fuel cell. Journal of Chemical Technology and Biotechnology, 2013, 88, 623-628.	1.6	37
102	Synthesis and performance of Sm0.9Sr0.1Cr0.5Fe0.5O3 as anode material for SOFCs running on H2S-containing fuel. Ionics, 2013, 19, 491-497.	1.2	4
103	Redox stability and sulfur resistance of Sm0.9Sr0.1CrxFe1â^'xO3â^'Î´ perovskite materials. Journal of Alloys and Compounds, 2013, 578, 60-66.	2.8	48
104	Effect of nitrogen doping on oxygen vacancies of titanium dioxide supported vanadium pentoxide for ammonia-SCR reaction at low temperature. Journal of Colloid and Interface Science, 2013, 402, 190-195.	5.0	44
105	The characterization of CrCe-doped on TiO2-pillared clay nanocomposites for NO oxidation and the promotion effect of CeOx. Applied Surface Science, 2013, 268, 535-540.	3.1	54
106	Mesoporous TiO2 as the support of tetraethylenepentamine for CO2 capture from simulated flue gas. RSC Advances, 2013, 3, 23785.	1.7	13
107	Effects of Cr on the NO oxidation over the ceriaâ€zirconia solid solution. RSC Advances, 2013, 3, 7009.	1.7	43
108	Structure and redox properties of perovskite Y0.9Sr0.1Cr1â^'xFexO3â^'Î´. Applied Surface Science, 2013, 268, 246-251.	3.1	17

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109	Capture of carbon dioxide from flue gases by amine-functionalized TiO2 nanotubes. Applied Surface Science, 2013, 268, 124-128.	3.1	39
110	Promotional effect of F-doped V2O5â€“WO3/TiO2 catalyst for NH3-SCR of NO at low-temperature. Applied Catalysis A: General, 2012, 435-436, 156-162.	2.2	125
111	Selective catalytic oxidation of NO with O2 over Ce-doped MnOx/TiO2 catalysts. Journal of Natural Gas Chemistry, 2012, 21, 17-24.	1.8	50
112	In situ fabrication of cobalt/nickel sulfides nanohybrid based on various sulfur sources as highly efficient bifunctional electrocatalysts for overall water splitting. Nano Select, 0, , .	1.9	6